

Appendix I

```

int Browser_Handler::process_request( const char * buffer, ssize_t r_bytes )
{
    m_n_bytes_received += r_bytes;

    if ( (m_n_bytes_to_receive != 0) &&
        (m_n_bytes_received > (m_n_bytes_to_receive + 2)) )
    {
        reset();
        m_n_bytes_received = r_bytes;
    }

    if ( m_o_request.bypass_parsing() == false )
    {
        IKENA_TRACE ( DBG_IKPROXY_DUMP, ( "Browser_Handler(%x): Dumping raw
incoming data...\n", this ) );
        IKENA_HEXDUMP( DBG_IKPROXY_DUMP, ( buffer, r_bytes ) );

        switch ( m_o_request.inject(buffer, r_bytes) )
        {
            case IR_COMPLETE:
                if ( m_o_request.parse() == PR_ERROR )
                {
                    m_response_buf.copy( INVALID_REQUEST_MSG,
INVALID_REQUEST_MSG_LEN );
                    send_i();
                    return CONNECTION_CLOSE;
                }

                if ( (strlen(m_o_request.get_request_host()) == CMD_INFO_VIEW_LEN) &&
                    strcmp(m_o_request.get_request_host(), CMD_INFO_VIEW) == 0 )
                {
                    create_info_page();
                    return CONNECTION_CLOSE;
                }
                else if ( (strlen(m_o_request.get_request_host()) == CMD_PURGE_COOKIE_LEN) &&
                    strcmp(m_o_request.get_request_host(), CMD_PURGE_COOKIE) == 0 )
                {
                    return CONNECTION_CLOSE;
                }

                m_b_shared_session = m_o_request.is_shared_session();

                if ( m_b_shared_session == true )
                {
                    m_o_request.destroy_cookies();

```

```

        m_o_request.set_cookies( m_o_cookie_jar.get_cookies(m_o_request.get_request_host(),
m_o_request.get_URL() ) );
    }

    m_temp_buffer.length(0);
    m_temp_buffer.crunch();
    m_o_request.compose(m_temp_buffer);

    IKENA_TRACE ( DBG_IKPROXY_DUMP, ( "Browser_Handler(%x): Dumping parsed
data...\n", this ));
    IKENA_HEXDUMP( DBG_IKPROXY_DUMP, ( m_temp_buffer.rd_ptr(),
m_temp_buffer.length() ));

    m_web_handler.set_request_host( m_o_request.get_request_host() );
    m_web_handler.set_request_port( m_o_request.get_request_port() );

    if ( m_web_handler.start( m_b_shared_session, m_o_request.get_host(),
m_o_request.get_URL(), m_o_request.get_port()) < 0 )
    {
        return CONNECTION_CLOSE;
    }

    m_web_handler.inject_request_data( m_temp_buffer.rd_ptr(), m_temp_buffer.length() );

    if ( m_o_request.get_body_length() > 0)
    {
        m_n_bytes_to_receive = m_o_request.get_body_length() +
m_o_request.get_unmodified_header_length();
        IKENA_TRACE( DBG_IKPROXY, ( "Browser_Handler(%x): SET
m_n_bytes_to_receive = %d...\n", this, m_n_bytes_to_receive ));

        ACE_ASSERT( (m_n_bytes_to_receive + 2) >= m_n_bytes_received );
    }
    else
    {
        m_n_bytes_to_receive = m_n_bytes_received = 0;

        IKENA_TRACE( DBG_IKPROXY, ( "Browser_Handler(%x): SET
m_n_bytes_to_receive = UNKNOWN...\n", this ));
    }

    m_web_handler.send();

    if ( m_n_bytes_received == m_n_bytes_to_receive )
    {

```

```

        reset();
    }
    break;

    case IR_ERROR:
        m_response_buf.copy( INVALID_REQUEST_MSG,
INVALID_REQUEST_MSG_LEN );
        send_i();
        return CONNECTION_CLOSE;
        break;

    case IR_INCOMPLETE:
        IKENA_TRACE( DBG_IKPROXY, ( "Browser_Handler(%x): Complete header NOT
yet given\n", this ));
        break;

    default:
        ACE_ASSERT(false);
        break;
    }
}
else
{
    IKENA_TRACE( DBG_IKPROXY, ( "Browser_Handler(%x): Bypassing parse data...\n",
this ));

    if ( m_n_bytes_received > (m_n_bytes_to_receive + 2) )
    {
        ACE_ASSERT( false );
    }
    else
    {
        m_web_handler.inject_request_data( buffer, r_bytes );
    }

    m_web_handler.send();

    if ( m_n_bytes_received >= m_n_bytes_to_receive )
    {
        reset();
    }
}

return CONNECTION_ALIVE;
}

```

```

inline void HTTP_Request::destroy_cookies( void )
{
    m_v_cookies.clear();
    return;
}

```

```

inline void HTTP_Request::set_cookies( const vector<HTTP_Cookie> * v_cookies )
{
    if ( v_cookies != 0 )
    {
        m_v_cookies = *(v_cookies);
    }

    return;
}

```

Appendix II

w/ cookie management, pay attention to flag "ikena: shared"

(16:39:35) Browser_Handler(391b338)::handle_input[4291038473], r_bytes=644

(16:39:35) Browser_Handler(391b338): Dumping raw incoming data...

(16:39:35) Dumping 0x3C1F960 size 644

(16:39:35) 47 45 54 20 68 74 74 70 3A 2F 2F 6D 79 2E 79 61
(16:39:35) 68 6F 6F 2E 63 6F 6D 2F 20 48 54 54 50 2F 31 2E
(16:39:35) 30 0D 0A 41 63 63 65 70 74 3A 20 69 6D 61 67 65
(16:39:35) 2F 67 69 66 2C 20 69 6D 61 67 65 2F 78 2D 78 62
(16:39:35) 69 74 6D 61 70 2C 20 69 6D 61 67 65 2F 6A 70 65
(16:39:35) 67 2C 20 69 6D 61 67 65 2F 70 6A 70 65 67 2C 20
(16:39:35) 61 70 70 6C 69 63 61 74 69 6F 6E 2F 76 6E 64 2E
(16:39:35) 6D 73 2D 70 6F 77 65 72 70 6F 69 6E 74 2C 20 61
(16:39:35) 70 70 6C 69 63 61 74 69 6F 6E 2F 76 6E 64 2E 6D
(16:39:35) 73 2D 65 78 63 65 6C 2C 20 61 70 70 6C 69 63 61
(16:39:35) 74 69 6F 6E 2F 6D 73 77 6F 72 64 2C 20 2A 2F 2A
(16:39:35) 0D 0A 41 63 63 65 70 74 2D 4C 61 6E 67 75 61 67
(16:39:35) 65 3A 20 65 6E 2D 75 73 0D 0A 69 6B 65 6E 61 3A
(16:39:35) 20 73 68 61 72 65 64 0D 0A 50 72 6F 78 79 2D 43
(16:39:35) 6F 6E 6E 65 63 74 69 6F 6E 3A 20 4B 65 65 70 2D
(16:39:35) 41 6C 69 76 65 0D 0A 55 73 65 72 2D 41 67 65 6E
(16:39:35) 74 3A 20 4D 6F 7A 69 6C 6C 61 2F 34 2E 30 20 28
(16:39:35) 63 6F 6D 70 61 74 69 62 6C 65 3B 20 4D 53 49 45
(16:39:35) 20 35 2E 35 3B 20 57 69 6E 64 6F 77 73 20 39 38
(16:39:35) 29 0D 0A 48 6F 73 74 3A 20 6D 79 2E 79 61 68 6F
(16:39:35) 6F 2E 63 6F 6D 0D 0A 43 6F 6F 6B 69 65 3A 20 42
(16:39:35) 3D 33 75 6A 38 76 31 70 6B 6E 34 6F 75 72 3B 20
(16:39:35) 49 3D 69 31 3D 31 75 31 76 32 32 32 36 32 39 32
(16:39:35) 70 34 37 34 39 34 67 34 75 35 35 37 31 37 61 37
(16:39:35) 64 61 30 61 63 61 64 62 30 62 33 62 64 62 70 63
(16:39:35) 30 63 31 63 67 63 6F 63 70 69 62 26 69 72 3D 37
(16:39:35) 38 3B 20 59 3D 76 3D 31 26 6E 3D 39 38 74 70 6E
(16:39:35) 74 30 37 75 30 6C 6F 30 26 6C 3D 32 37 34 64 36
(16:39:35) 5F 70 37 30 64 36 2F 6F 26 70 3D 6D 32 64 30 31
(16:39:35) 6F 39 34 31 30 30 62 30 34 26 72 3D 32 34 26 6C
(16:39:35) 67 3D 75 73 26 69 6E 74 6C 3D 75 73 3B 20 54 3D
(16:39:35) 7A 3D 54 68 77 66 36 41 54 6E 46 67 36 41 69 4E
(16:39:35) 75 5A 68 32 2F 65 6F 63 45 4E 6A 63 33 42 6A 59
(16:39:35) 7A 4E 7A 5A 50 4D 54 63 7A 4D 67 2D 2D 26 61 3D
(16:39:35) 67 45 45 26 73 6B 3D 44 41 41 35 4F 36 30 4D 47
(16:39:35) 4F 53 6F 46 78 26 64 3D 63 32 77 42 54 56 52 42
(16:39:35) 64 30 46 55 52 54 42 4E 52 45 55 30 54 6D 70 42
(16:39:35) 4D 45 35 52 4C 53 30 42 59 51 46 6E 52 55 55 42
(16:39:35) 61 57 63 42 61 55 46 56 65 6B 46 42 41 58 70 36
(16:39:35) 41 56 52 6F 64 32 59 32 51 57 64 58 51 51 2D 2D
(16:39:35) 0D 0A 0D 0A
(16:39:35) Dumped 0x3C1FBE4 done 644

GET http://my.ya
hoo.com/ HTTP/1.
0..Accept: image
/gif, image/x-xb
itmap, image/jpe
g, image/pjpeg,
application/vnd.
ms-powerpoint, a
pplication/vnd.m
s-excel, applica
tion/msword, */*
..Accept-Languag
e: en-us..ikena:
shared..Proxy-C
onnection: Keep-
Alive..User-Agen
t: Mozilla/4.0 (
compatible; MSIE
5.5; Windows 98
)..Host: my.yaho
o.com..Cookie: B
=3uj8v1pkn4our;
I=i1=1u1v2226292
p47494g4u55717a7
da0acadb0b3bdbpc
0c1cgcocpib&ir=7
8; Y=v=1&n=98tpn
t07u0lo0&l=274d6
_p70d6/o&p=m2d01
o94100b04&r=24&l
g=us&intl=us; T=
z=Thwf6ATnFg6AiN
uZh2/eocENjc3BjY
zNzZPMTczMg--&a=
gEE&sk=DAA5O60MG
OsoFx&d=c2wBTVRB
d0FURTBNREU0TnpB
ME5RLS0BYQFnRUUB
aWcBaUFVekFBAXp6
AVRod2Y2QWdXQQ--
....

(16:39:35) Browser_Handler(391b338): Dumping parsed data...

(16:39:35) Dumping 0x392BC54 size 289

(16:39:35) 47 45 54 20 2F 20 48 54 54 50 2F 31 2E 30 0D 0A
(16:39:35) 41 63 63 65 70 74 3A 20 69 6D 61 67 65 2F 67 69
(16:39:35) 66 2C 20 69 6D 61 67 65 2F 78 2D 78 62 69 74 6D
(16:39:35) 61 70 2C 20 69 6D 61 67 65 2F 6A 70 65 67 2C 20
(16:39:35) 69 6D 61 67 65 2F 70 6A 70 65 67 2C 20 61 70 70

GET / HTTP/1.0..
Accept: image/gi
f, image/x-xbitm
ap, image/jpeg,
image/pjpeg, app

(16:39:35) 6C 69 63 61 74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D
(16:39:35) 70 6F 77 65 72 70 6F 69 6E 74 2C 20 61 70 70 6C
(16:39:35) 69 63 61 74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D 65
(16:39:35) 78 63 65 6C 2C 20 61 70 70 6C 69 63 61 74 69 6F
(16:39:35) 6E 2F 6D 73 77 6F 72 64 2C 20 2A 2F 2A 0D 0A 41
(16:39:35) 63 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 3A 20
(16:39:35) 65 6E 2D 75 73 0D 0A 43 6F 6E 6E 65 63 74 69 6F
(16:39:35) 6E 3A 20 4B 65 65 70 2D 41 6C 69 76 65 0D 0A 55
(16:39:35) 73 65 72 2D 41 67 65 6E 74 3A 20 4D 6F 7A 69 6C
(16:39:35) 6C 61 2F 34 2E 30 20 28 63 6F 6D 70 61 74 69 62
(16:39:35) 6C 65 3B 20 4D 53 49 45 20 35 2E 35 3B 20 57 69
(16:39:35) 6E 64 6F 77 73 20 39 38 29 0D 0A 48 6F 73 74 3A
(16:39:35) 20 6D 79 2E 79 61 68 6F 6F 2E 63 6F 6D 0D 0A 0D
(16:39:35) 0A

(16:39:35) Dumped 0x392BD75 done 289

(16:39:39) Web_Handler(391b3a4)::send_i: Dumping outgoing data=[3921f44], size=289...

(16:39:39) Dumping 0x3921F44 size 289

(16:39:39) 47 45 54 20 2F 20 48 54 54 50 2F 31 2E 30 0D 0A
(16:39:39) 41 63 63 65 70 74 3A 20 69 6D 61 67 65 2F 67 69
(16:39:39) 66 2C 20 69 6D 61 67 65 2F 78 2D 78 62 69 74 6D
(16:39:39) 61 70 2C 20 69 6D 61 67 65 2F 6A 70 65 67 2C 20
(16:39:39) 69 6D 61 67 65 2F 70 6A 70 65 67 2C 20 61 70 70
(16:39:39) 6C 69 63 61 74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D
(16:39:39) 70 6F 77 65 72 70 6F 69 6E 74 2C 20 61 70 70 6C
(16:39:39) 69 63 61 74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D 65
(16:39:39) 78 63 65 6C 2C 20 61 70 70 6C 69 63 61 74 69 6F
(16:39:39) 6E 2F 6D 73 77 6F 72 64 2C 20 2A 2F 2A 0D 0A 41
(16:39:39) 63 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 3A 20
(16:39:39) 65 6E 2D 75 73 0D 0A 43 6F 6E 6E 65 63 74 69 6F
(16:39:39) 6E 3A 20 4B 65 65 70 2D 41 6C 69 76 65 0D 0A 55
(16:39:39) 73 65 72 2D 41 67 65 6E 74 3A 20 4D 6F 7A 69 6C
(16:39:39) 6C 61 2F 34 2E 30 20 28 63 6F 6D 70 61 74 69 62
(16:39:39) 6C 65 3B 20 4D 53 49 45 20 35 2E 35 3B 20 57 69
(16:39:39) 6E 64 6F 77 73 20 39 38 29 0D 0A 48 6F 73 74 3A
(16:39:39) 20 6D 79 2E 79 61 68 6F 6F 2E 63 6F 6D 0D 0A 0D
(16:39:39) 0A

(16:39:39) Dumped 0x3922065 done 289

(16:39:39) Web_Handler(391b3a4)::handle_input[4291038473], r_bytes = 1024, errno = 6

(16:39:39) Web_Handler(391b3a4): Dumping raw incoming data=[3c1f960], size=1024...

(16:39:39) Dumping 0x3C1F960 size 1024

(16:39:39) 48 54 54 50 2F 31 2E 30 20 32 30 30 20 4F 4B 0D
(16:39:39) 0A 44 61 74 65 3A 20 4D 6F 6E 2C 20 30 35 20 46
(16:39:39) 65 62 20 32 30 30 31 20 32 31 3A 33 38 3A 34 34
(16:39:39) 20 47 4D 54 0D 0A 43 61 63 68 65 2D 43 6F 6E 74
(16:39:39) 72 6F 6C 3A 20 70 72 69 76 61 74 65 0D 0A 43 6F
(16:39:39) 6E 6E 65 63 74 69 6F 6E 3A 20 63 6C 6F 73 65 0D
(16:39:39) 0A 43 6F 6E 74 65 6E 74 2D 54 79 70 65 3A 20 74
(16:39:39) 65 78 74 2F 68 74 6D 6C 0D 0A 53 65 74 2D 43 6F
(16:39:39) 6F 6B 69 65 3A 20 42 3D 62 35 6B 37 6F 71 38 74
(16:39:39) 37 75 37 62 34 26 62 3D 32 3B 20 65 78 70 69 72
(16:39:39) 65 73 3D 54 68 75 2C 20 31 35 20 41 70 72 20 32
(16:39:39) 30 31 30 20 32 30 3A 30 30 3A 30 30 20 47 4D 54
(16:39:39) 3B 20 70 61 74 68 3D 2F 3B 20 64 6F 6D 61 69 6E
(16:39:39) 3D 2E 79 61 68 6F 6F 2E 63 6F 6D 0D 0A 0D 0A 3C
(16:39:39) 68 74 6D 6C 3E 0A 3C 68 65 61 64 3E 0A 3C 73 74

lication/vnd.ms-
powerpoint, appl
lication/vnd.ms-e
xcel, applicatio
n/msword, /*...A
ccept-Language:
en-us..Connectio
n: Keep-Alive..U
ser-Agent: Mozil
la/4.0 (compatib
le; MSIE 5.5; Wi
ndows 98)..Host:
my.yahoo.com...

GET / HTTP/1.0..
Accept: image/gi
f, image/x-ibitm
ap, image/jpeg,
image/pjpeg, app
lication/vnd.ms-
powerpoint, appl
lication/vnd.ms-e
xcel, applicatio
n/msword, /*...A
ccept-Language:
en-us..Connectio
n: Keep-Alive..U
ser-Agent: Mozil
la/4.0 (compatib
le; MSIE 5.5; Wi
ndows 98)..Host:
my.yahoo.com...

HTTP/1.0 200 OK.
.Date: Mon, 05 F
eb 2001 21:38:44
GMT..Cache-Cont
rol: private..Co
nnection: close.
.Content-Type: t
ext/html..Set-Co
okie: B=b5k7oq8t
7u7b4&b=2; expir
es=Thu, 15 Apr 2
010 20:00:00 GMT
; path=/; domain
=.yahoo.com....<
html>.<head>.<st

```

(16:39:39) 79 6C 65 3E 0A 3C 21 2D 2D 0A 73 75 62 68 65 61
(16:39:39) 64 20 7B 20 63 6F 6C 6F 72 3A 3B 20 20 66 6F 6E
(16:39:39) 74 2D 66 61 63 65 3A 41 72 69 61 6C 3B 20 66 6F
(16:39:39) 6E 74 2D 73 69 7A 65 3A 2D 31 3B 20 7D 2D 2D 3E
(16:39:39) 0A 3C 2F 73 74 79 6C 65 3E 0A 0A 3C 74 69 74 6C
(16:39:39) 65 3E 57 65 6C 63 6F 6D 65 20 74 6F 20 4D 79 20
(16:39:39) 59 61 68 6F 6F 21 3C 2F 74 69 74 6C 65 3E 0A 3C
(16:39:39) 2F 68 65 61 64 3E 0A 3C 62 6F 64 79 20 20 62 67
(16:39:39) 63 6F 6C 6F 72 3D 22 23 66 66 66 66 66 66 22 20
(16:39:39) 6F 6E 4C 6F 61 64 3D 22 69 66 28 64 6F 63 75 6D
(16:39:39) 65 6E 74 2E 66 6D 20 26 26 20 64 6F 63 75 6D 65
(16:39:39) 6E 74 2E 66 6D 2E 6C 6F 67 69 6E 29 7B 64 6F 63
(16:39:39) 75 6D 65 6E 74 2E 66 6D 2E 6C 6F 67 69 6E 2E 66
(16:39:39) 6F 63 75 73 28 29 3B 7D 22 3E 0A 0A 3C 73 63 72
(16:39:39) 69 70 74 20 6C 61 6E 67 75 61 67 65 3D 6A 61 76
(16:39:39) 61 73 63 72 69 70 74 3E 0A 3C 21 2D 2D 0A 76 61
(16:39:39) 72 20 72 65 6D 6F 74 65 20 3D 20 6E 75 6C 6C 3B
(16:39:39) 0A 66 75 6E 63 74 69 6F 6E 20 72 73 28 6E 2C 75
(16:39:39) 2C 77 2C 68 29 20 7B 0A 72 65 6D 6F 74 65 20 3D
(16:39:39) 20 77 69 6E 64 6F 77 2E 6F 70 65 6E 28 75 2C 20
(16:39:39) 6E 2C 20 27 77 69 64 74 68 3D 27 20 2B 20 77 20
(16:39:39) 2B 20 27 2C 68 65 69 67 68 74 3D 27 20 2B 20 68
(16:39:39) 20 2B 27 2C 72 65 73 69 7A 61 62 6C 65 3D 79 65
(16:39:39) 73 2C 73 63 72 6F 6C 6C 62 61 72 73 3D 79 65 73
(16:39:39) 27 29 3B 0A 69 66 20 28 72 65 6D 6F 74 65 20 21
(16:39:39) 3D 20 6E 75 6C 6C 29 20 7B 0A 69 66 20 28 72 65
(16:39:39) 6D 6F 74 65 2E 6F 70 65 6E 65 72 20 3D 3D 20 6E
(16:39:39) 75 6C 6C 29 0A 72 65 6D 6F 74 65 2E 6F 70 65 6E
(16:39:39) 65 72 20 3D 20 73 65 6C 66 3B 0A 77 69 6E 64 6F
(16:39:39) 77 2E 6E 61 6D 65 20 3D 20 27 6D 79 59 61 68 6F
(16:39:39) 6F 52 6F 6F 74 27 3B 0A 72 65 6D 6F 74 65 2E 6C
(16:39:39) 6F 63 61 74 69 6F 6E 2E 68 72 65 66 20 3D 20 75
(16:39:39) 3B 0A 7D 0A 7D 0A 2F 2F 2D 2D 3E 0A 3C 2F 73 63
(16:39:39) 72 69 70 74 3E 0A 3C 63 65 6E 74 65 72 3E 0A 3C
(16:39:39) 74 61 62 6C 65 20 62 6F 72 64 65 72 3D 30 20 77
(16:39:39) 69 64 74 68 3D 22 31 30 30 25 22 20 63 65 6C 6C
(16:39:39) 73 70 61 63 69 6E 67 3D 30 20 63 65 6C 6C 70 61
(16:39:39) 64 64 69 6E 67 3D 30 3E 3C 74 72 3E 3C 74 64 20
(16:39:39) 77 69 64 74 68 3D 22 31 30 30 25 22 3E 0A 3C 74
(16:39:39) 61 62 6C 65 20 62 6F 72 64 65 72 3D 30 20 77 69
(16:39:39) 64 74 68 3D 31 30 30 25 20 63 65 6C 6C 73 70 61
(16:39:39) 63 69 6E 67 3D 30 20 63 65 6C 6C 70 61 64 64 69
(16:39:39) 6E 67 3D 30 3E 3C 74 72 3E 3C 74 64 20 76 61 6C
(16:39:39) 69 67 6E 3D 6D 69 64 64 6C 65 20 77 69 64 74 68
(16:39:39) 3D 22 31 25 22 3E 3C 41 20 48 52 45 46 3D 22 2F
(16:39:39) 75 70 64 2F 3F 68 74 74 70 3A 2F 2F 6D 79 2E 79
(16:39:39) 61 68 6F 6F 2E 63 6F 6D 2F 22 3E 3C 69 6D 67 20
(16:39:39) 73 72 63 3D 22 68 74 74 70 3A 2F 2F 75 73 2E 69
(16:39:39) 31 2E 79 69 6D 67 2E 63 6F 6D 2F 75 73 2E 79 69
(16:39:39) Dumped 0x3C1FD60 done 1024
(16:39:39) Web_Handler(391b3a4): Dumping parsed data=[3924688], size=925...
(16:39:39) Dumping 0x3924688 size 925
(16:39:39) 48 54 54 50 2F 31 2E 30 20 32 30 30 20 4F 4B 0D
(16:39:39) 0A 44 61 74 65 3A 20 4D 6F 6E 2C 20 30 35 20 46
(16:39:39) 65 62 20 32 30 30 31 20 32 31 3A 33 38 3A 34 34

```

```

yle>.<!--.subhea
d { color:; fon
t-face:Arial; fo
nt-size:-1; }-->
.</style>.<titl
e>Welcome to My
Yahoo!</title>.<
/head>.<body bg
color="#ffffff"
onLoad="if(docum
ent.fm && docume
nt.fm.login){doc
ument.fm.login.f
ocus();}">.<scr
ipt language=jav
ascript>.<!--.va
r remote = null;
.function rs(n,u
,w,h) {remote =
window.open(u,
n, 'width=' + w
+ ',height=' + h
+',resizable=ye
s,scrollbars=yes
');.if (remote !
= null) {.if (re
mote.opener == n
ull).remote.open
er = self;.windo
w.name = 'myYaho
oRoot';.remote.l
ocation.href = u
;}.}./-->.</sc
ript>.<center>.<
table border=0 w
idth="100%" cell
spacing=0 cellpa
dding=0><tr><td
width="100%">.<t
able border=0 wi
dth=100% cellspa
cing=0 cellpaddi
ng=0><tr><td val
ign=middle width
="1%"><A HREF="
upd/?http://my.y
ahoo.com/">.<script  
 language=javasc  
 ript>.<!--.var r  
 emote = null;fu  
 nction rs(n,u,w,  
 h) {.remote = wi  
 ndow.open(u, n,  
 'width=' + w + '  
 ,height=' + h + '  
 ,resizable=yes,s  
 crollbars=yes');  
 .if (remote != n  
 ull) {.if (remot  
 e.opener == null  
 ).remote.opener  
 = self;.window.n  
 ame = 'myYahooRo  
 ot';.remote.loca  
 tion.href = u;}.  
 }./-->.</scrip  
 t>.<center>.<tab  
 le border=0 widt  
 h="100%" cellspa  
 cing=0 cellpadding  
 ng=0><tr><td wid  
 th="100%">.<tabl  
 e border=0 width  
 =100% cellspacin  
 g=0 cellpadding=  
 0><tr><td valign  
 =middle width="1  
 %"><A HREF="/upd  
 /?http://my.yaho  
 o.com/"><img src  
 ="http://us.il.y  
 img.com/us.yi

(16:39:39) Dumped 0x3924A25 done 925

(16:39:47) Browser\_Handler(392e398)::handle\_input[4291038473], r\_bytes=709

(16:39:47) Browser\_Handler(392e398): Dumping raw incoming data...

(16:39:47) Dumping 0x3C1F960 size 709

(16:39:47) 47 45 54 20 68 74 74 70 3A 2F 2F 6C 6F 67 69 6E  
(16:39:47) 2E 79 61 68 6F 6F 2E 63 6F 6D 2F 63 6F 6E 66 69  
(16:39:47) 67 2F 76 65 72 69 66 79 3F 2E 64 6F 6E 65 3D 68  
(16:39:47) 74 74 70 25 33 61 2F 2F 6D 79 2E 79 61 68 6F 6F  
(16:39:47) 2E 63 6F 6D 20 48 54 54 50 2F 31 2E 30 0D 0A 41  
(16:39:47) 63 63 65 70 74 3A 20 69 6D 61 67 65 2F 67 69 66  
(16:39:47) 2C 20 69 6D 61 67 65 2F 78 2D 78 62 69 74 6D 61  
(16:39:47) 70 2C 20 69 6D 61 67 65 2F 6A 70 65 67 2C 20 69  
(16:39:47) 6D 61 67 65 2F 70 6A 70 65 67 2C 20 61 70 70 6C  
(16:39:47) 69 63 61 74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D 70  
(16:39:47) 6F 77 65 72 70 6F 69 6E 74 2C 20 61 70 70 6C 69  
(16:39:47) 63 61 74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D 65 78  
(16:39:47) 63 65 6C 2C 20 61 70 70 6C 69 63 61 74 69 6F 6E  
(16:39:47) 2F 6D 73 77 6F 72 64 2C 20 2A 2F 2A 0D 0A 41 63  
(16:39:47) 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 3A 20 65  
(16:39:47) 6E 2D 75 73 0D 0A 69 6B 65 6E 61 3A 20 73 68 61  
(16:39:47) 72 65 64 0D 0A 50 72 6F 78 79 2D 43 6F 6E 6E 65  
(16:39:47) 63 74 69 6F 6E 3A 20 4B 65 65 70 2D 41 6C 69 76  
(16:39:47) 65 0D 0A 55 73 65 72 2D 41 67 65 6E 74 3A 20 4D  
(16:39:47) 6F 7A 69 6C 6C 61 2F 34 2E 30 20 28 63 6F 6D 70  
(16:39:47) 61 74 69 62 6C 65 3B 20 4D 53 49 45 20 35 2E 35  
(16:39:47) 3B 20 57 69 6E 64 6F 77 73 20 39 38 29 0D 0A 48  
(16:39:47) 6F 73 74 3A 20 6C 6F 67 69 6E 2E 79 61 68 6F 6F  
(16:39:47) 2E 63 6F 6D 0D 0A 50 72 61 67 6D 61 3A 20 6E 6F  
(16:39:47) 2D 63 61 63 68 65 0D 0A 43 6F 6F 6B 69 65 3A 20  
(16:39:47) 42 3D 33 75 6A 38 76 31 70 6B 6E 34 6F 75 72 3B  
(16:39:47) 20 49 3D 69 31 3D 31 75 31 76 32 32 32 36 32 39  
(16:39:47) 32 70 34 37 34 39 34 67 34 75 35 35 37 31 37 61  
(16:39:47) 37 64 61 30 61 63 61 64 62 30 62 33 62 64 62 70  
(16:39:47) 63 30 63 31 63 67 63 6F 63 70 69 62 26 69 72 3D  
(16:39:47) 37 38 3B 20 59 3D 76 3D 31 26 6E 3D 39 38 74 70  
(16:39:47) 6E 74 30 37 75 30 6C 6F 30 26 6C 3D 32 37 34 64  
(16:39:47) 36 5F 70 37 30 64 36 2F 6F 26 70 3D 6D 32 64 30  
(16:39:47) 31 6F 39 34 31 30 30 62 30 34 26 72 3D 32 34 26  
(16:39:47) 6C 67 3D 75 73 26 69 6E 74 6C 3D 75 73 3B 20 54  
(16:39:47) 3D 7A 3D 54 68 77 66 36 41 54 6E 46 67 36 41 69  
(16:39:47) 4E 75 5A 68 32 2F 65 6F 63 45 4E 6A 63 33 42 6A  
(16:39:47) 59 7A 4E 7A 5A 50 4D 54 63 7A 4D 67 2D 2D 26 61  
(16:39:47) 3D 67 45 45 26 73 6B 3D 44 41 41 35 4F 36 30 4D  
(16:39:47) 47 4F 53 6F 46 78 26 64 3D 63 32 77 42 54 56 52  
(16:39:47) 42 64 30 46 55 52 54 42 4E 52 45 55 30 54 6D 70  
(16:39:47) 42 4D 45 35 52 4C 53 30 42 59 51 46 6E 52 55 55  
(16:39:47) 42 61 57 63 42 61 55 46 56 65 6B 46 42 41 58 70  
(16:39:47) 36 41 56 52 6F 64 32 59 32 51 57 64 58 51 51 2D  
(16:39:47) 2D 0D 0A 0D 0A

(16:39:47) Dumped 0x3C1FC25 done 709

(16:39:47) Browser\_Handler(392e398): Dumping parsed data...

(16:39:47) Dumping 0x393ECB4 size 686

(16:39:47) 47 45 54 20 2F 63 6F 6E 66 69 67 2F 76 65 72 69

(16:39:47) 66 79 3F 2E 64 6F 6E 65 3D 68 74 74 70 25 33 61

GET http://login  
.yahoo.com/config/  
verify?.done=http%3a//my.yahoo  
.com HTTP/1.0..Ac  
ccept: image/gif  
, image/x-xbitma  
p, image/jpeg, i  
mage/pjpeg, appl  
ication/vnd.ms-p  
owerpoint, appli  
cation/vnd.ms-ex  
cel, application  
/msword, /\*..Ac  
cept-Language: e  
n-us..ikena: sha  
red..Proxy-Conne  
ction: Keep-Aliv  
e..User-Agent: M  
ozilla/4.0 (comp  
atible; MSIE 5.5  
; Windows 98)..H  
ost: login.yahoo  
.com..Pragma: no  
-cache..Cookie:  
B=3uj8v1pkn4our;  
I=i1=1u1v222629  
2p47494g4u55717a  
7da0acad0b3bdbp  
c0c1cgccocpib&ir=  
78; Y=v=1&n=98tp  
nt07u0lo0&l=274d  
6\_p70d6/o&p=m2d0  
1o94100b04&r=24&  
lg=us&intl=us; T  
=z=Thwf6ATnFg6Ai  
NuZh2/eocENjc3Bj  
YzNzZPMTczMg--&a  
=gEE&sk=DAA5O60M  
GOSoFx&d=c2wBTVR  
Bd0FURTBNREU0Tmp  
BME5RLS0BYQFnRUU  
BaWcBaUFVekFBAXp  
6AVRod2Y2QWdXQQ-  
....

GET /config/veri  
fy?.done=http%3a

```

(16:39:47) 2F 2F 6D 79 2E 79 61 68 6F 6F 2E 63 6F 6D 20 48
(16:39:47) 54 54 50 2F 31 2E 30 0D 0A 43 6F 6F 6B 69 65 3A
(16:39:47) 20 42 3D 62 35 6B 37 6F 71 38 74 37 75 37 62 34
(16:39:47) 26 62 3D 32 3B 20 59 3D 76 3D 31 26 6E 3D 39 38
(16:39:47) 74 70 6E 74 30 37 75 30 6C 6F 30 26 6C 3D 32 37
(16:39:47) 34 64 36 5F 70 37 30 64 36 2F 6F 26 70 3D 6D 32
(16:39:47) 64 30 31 6F 39 34 31 31 30 62 30 34 26 72 3D 32
(16:39:47) 34 26 6C 67 3D 75 73 26 69 6E 74 6C 3D 75 73 3B
(16:39:47) 20 54 3D 7A 3D 73 31 78 66 36 41 73 37 47 67 36
(16:39:47) 41 30 30 75 45 45 51 79 67 49 7A 38 4E 6A 63 33
(16:39:47) 42 6A 59 7A 4E 7A 5A 50 4D 54 63 7A 4D 67 2D 2D
(16:39:47) 26 61 3D 67 45 45 26 73 6B 3D 44 41 41 77 6B 34
(16:39:47) 70 68 50 78 50 4E 57 63 26 64 3D 63 32 77 42 54
(16:39:47) 56 52 42 64 30 46 55 52 54 42 4E 52 45 55 30 54
(16:39:47) 6D 70 42 4D 45 35 52 4C 53 30 42 59 51 46 6E 52
(16:39:47) 55 55 42 61 57 63 42 61 55 46 56 65 6B 46 42 41
(16:39:47) 58 70 36 41 58 4D 78 65 47 59 32 51 57 64 58 51
(16:39:47) 51 2D 2D 3B 20 49 3D 69 31 3D 30 31 30 34 30 67
(16:39:47) 31 75 31 76 32 34 32 36 32 39 32 70 33 68 34 39
(16:39:47) 34 67 34 75 37 31 37 32 37 61 37 64 37 66 37 69
(16:39:47) 37 6F 38 34 39 6A 61 30 61 6E 62 33 62 64 62 68
(16:39:47) 62 70 63 30 63 31 63 62 63 70 63 73 63 75 65 6D
(16:39:47) 26 69 72 3D 37 63 0D 0A 41 63 63 65 70 74 3A 20
(16:39:47) 69 6D 61 67 65 2F 67 69 66 2C 20 69 6D 61 67 65
(16:39:47) 2F 78 2D 78 62 69 74 6D 61 70 2C 20 69 6D 61 67
(16:39:47) 65 2F 6A 70 65 67 2C 20 69 6D 61 67 65 2F 70 6A
(16:39:47) 70 65 67 2C 20 61 70 70 6C 69 63 61 74 69 6F 6E
(16:39:47) 2F 76 6E 64 2E 6D 73 2D 70 6F 77 65 72 70 6F 69
(16:39:47) 6E 74 2C 20 61 70 70 6C 69 63 61 74 69 6F 6E 2F
(16:39:47) 76 6E 64 2E 6D 73 2D 65 78 63 65 6C 2C 20 61 70
(16:39:47) 70 6C 69 63 61 74 69 6F 6E 2F 6D 73 77 6F 72 64
(16:39:47) 2C 20 2A 2F 2A 0D 0A 41 63 63 65 70 74 2D 4C 61
(16:39:47) 6E 67 75 61 67 65 3A 20 65 6E 2D 75 73 0D 0A 43
(16:39:47) 6F 6E 6E 65 63 74 69 6F 6E 3A 20 4B 65 65 70 2D
(16:39:47) 41 6C 69 76 65 0D 0A 55 73 65 72 2D 41 67 65 6E
(16:39:47) 74 3A 20 4D 6F 7A 69 6C 6C 61 2F 34 2E 30 20 28
(16:39:47) 63 6F 6D 70 61 74 69 62 6C 65 3B 20 4D 53 49 45
(16:39:47) 20 35 2E 35 3B 20 57 69 6E 64 6F 77 73 20 39 38
(16:39:47) 29 0D 0A 48 6F 73 74 3A 20 6C 6F 67 69 6E 2E 79
(16:39:47) 61 68 6F 6F 2E 63 6F 6D 0D 0A 50 72 61 67 6D 61
(16:39:47) 3A 20 6E 6F 2D 63 61 63 68 65 0D 0A 0D 0A
(16:39:47) Dumped 0x393EF62 done 686

```

```

//my.yahoo.com H
TTP/1.0..Cookie:
B=b5k7oq8t7u7b4
&b=2; Y=v=1&n=98
tpnt07u0lo0&l=27
4d6_p70d6/o&p=m2
d01o94110b04&r=2
4&lg=us&intl=us;
T=z=s1xf6As7Gg6
A00uEEQyglz8Njc3
BjYzNzZPMTczMg--
&a=gEE&sk=DAAwk4
phPxPNWc&d=c2wBT
VRBd0FURTBNREU0T
mpBME5RLS0BYQFnR
UUBaWcBaUFVekFBA
Xp6AXMxeGY2QWdXQ
Q--; I=i1=01040g
1u1v2426292p3h49
4g4u71727a7d7f7i
7o849ja0anb3bdbh
bpc0c1cbcpccuem
&ir=7c..Accept:
image/gif, image
/x-bitmap, imag
e/jpeg, image/pj
peg, application
/vnd.ms-powerpoi
nt, application/
vnd.ms-excel, ap
plication/msword
, /*..Accept-La
nguage: en-us..C
onnection: Keep-
Alive..User-Agen
t: Mozilla/4.0 (
compatible; MSIE
5.5; Windows 98
)..Host: login.y
ahoo.com..Pragma
: no-cache....

```

w/o cookie management, no flag "ikena: shared"

```

(16:39:25) Browser_Handler(39082d8)::handle_input[4291038473], r_bytes=310
(16:39:25) Browser_Handler(39082d8): Dumping raw incoming data...
(16:39:25) Dumping 0x3C1F960 size 310
(16:39:25) 47 45 54 20 68 74 74 70 3A 2F 2F 77 77 77 2E 69
(16:39:25) 6B 65 6E 61 2E 63 6F 6D 2F 67 72 6F 75 70 2F 62
(16:39:25) 65 67 69 6E 2E 63 66 6D 20 48 54 54 50 2F 31 2E
(16:39:25) 30 0D 0A 41 63 63 65 70 74 3A 20 2A 2F 2A 0D 0A
(16:39:25) 41 63 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 3A

```

```

GET http://www.i
kena.com/group/b
egin.cfm HTTP/1.
0..Accept: /*..
Accept-Language:

```

```

(16:39:25) 20 65 6E 2D 75 73 0D 0A 43 6F 6F 6B 69 65 3A 20
(16:39:25) 43 46 49 44 3D 32 38 3B 20 43 46 54 4F 4B 45 4E
(16:39:25) 3D 36 30 33 35 35 33 31 30 3B 20 52 45 46 43 49
(16:39:25) 44 3D 3B 20 52 45 46 45 52 53 49 54 45 49 44 3D
(16:39:25) 31 3B 20 52 45 46 53 43 4F 52 45 3D 30 3B 20 53
(16:39:25) 55 42 5F 53 45 43 54 49 4F 4E 53 3D 3B 20 3B 20
(16:39:25) 53 55 42 5F 53 45 43 54 49 4F 4E 53 5F 4C 49 4E
(16:39:25) 4B 53 3D 0D 0A 55 73 65 72 2D 41 67 65 6E 74 3A
(16:39:25) 20 4D 6F 7A 69 6C 6C 61 2F 34 2E 30 20 28 63 6F
(16:39:25) 6D 70 61 74 69 62 6C 65 3B 20 4D 53 49 45 20 35
(16:39:25) 2E 35 3B 20 57 69 6E 64 6F 77 73 20 39 38 29 0D
(16:39:25) 0A 48 6F 73 74 3A 20 77 77 77 2E 69 6B 65 6E 61
(16:39:25) 2E 63 6F 6D 0D 0A 50 72 6F 78 79 2D 43 6F 6E 6E
(16:39:25) 65 63 74 69 6F 6E 3A 20 4B 65 65 70 2D 41 6C 69
(16:39:25) 76 65 0D 0A 0D 0A
(16:39:25) Dumped 0x3C1FA96 done 310
(16:39:25) Browser_Handler(39082d8): Dumping parsed data...
(16:39:25) Dumping 0x3918BF4 size 282
(16:39:25) 47 45 54 20 2F 67 72 6F 75 70 2F 62 65 67 69 6E
(16:39:25) 2E 63 66 6D 20 48 54 54 50 2F 31 2E 30 0D 0A 43
(16:39:25) 6F 6F 6B 69 65 3A 20 43 46 49 44 3D 32 38 3B 20
(16:39:25) 43 46 54 4F 4B 45 4E 3D 36 30 33 35 35 33 31 30
(16:39:25) 3B 20 52 45 46 43 49 44 3D 3B 20 52 45 46 45 52
(16:39:25) 53 49 54 45 49 44 3D 31 3B 20 52 45 46 53 43 4F
(16:39:25) 52 45 3D 30 3B 20 53 55 42 5F 53 45 43 54 49 4F
(16:39:25) 4E 53 3D 3B 20 53 55 42 5F 53 45 43 54 49 4F 4E
(16:39:25) 53 5F 4C 49 4E 4B 53 3D 0D 0A 41 63 63 65 70 74
(16:39:25) 3A 20 2A 2F 2A 0D 0A 41 63 63 65 70 74 2D 4C 61
(16:39:25) 6E 67 75 61 67 65 3A 20 65 6E 2D 75 73 0D 0A 55
(16:39:25) 73 65 72 2D 41 67 65 6E 74 3A 20 4D 6F 7A 69 6C
(16:39:25) 6C 61 2F 34 2E 30 20 28 63 6F 6D 70 61 74 69 62
(16:39:25) 6C 65 3B 20 4D 53 49 45 20 35 2E 35 3B 20 57 69
(16:39:25) 6E 64 6F 77 73 20 39 38 29 0D 0A 48 6F 73 74 3A
(16:39:25) 20 77 77 77 2E 69 6B 65 6E 61 2E 63 6F 6D 0D 0A
(16:39:25) 43 6F 6E 6E 65 63 74 69 6F 6E 3A 20 4B 65 65 70
(16:39:25) 2D 41 6C 69 76 65 0D 0A 0D 0A
(16:39:25) Dumped 0x3918D0E done 282

```

```

en-us..Cookie:
CFID=28; CFTOKEN
=60355310; REFCI
D=; REFERSITEID=
1; REFSCORE=0; S
UB_SECTIONS=; ;
SUB_SECTIONS_LIN
KS=..User-Agent:
Mozilla/4.0 (co
mpatible; MSIE 5
.5; Windows 98).
.Host: www.ikena
.com..Proxy-Conn
ection: Keep-Ali
ve....

```

```

GET /group/begin
.cfm HTTP/1.0..C
ookie: CFID=28;
CFTOKEN=60355310
; REFCID=; REFER
SITEID=1; REFSCO
RE=0; SUB_SECTIO
NS=; SUB_SECTION
S_LINKS=..Accept
: /*..Accept-La
nguage: en-us..U
ser-Agent: Mozil
la/4.0 (compatib
le; MSIE 5.5; Wi
ndows 98)..Host:
www.ikena.com..
Connection: Keep
-Alive....

```